

Name_____

Solving Quadratic Equations By Completing the Square Date_____ Period____

Solve each equation by completing the square.

1) $v^2 + 10v - 21 = 0$

2) $b^2 - 4b - 12 = 0$

3) $v^2 - 14v - 44 = 0$

4) $v^2 - 2v - 35 = 0$

5) $r^2 + 4r - 56 = 0$

6) $x^2 - 12x - 10 = 0$

7) $n^2 - 4n + 57 = -5$

8) $n^2 - 4n + 5 = 8$

$$9) \ n^2 - 95 = 14n$$

$$10) \ n^2 = -93 - 2n$$

$$11) \ 9n^2 = -77 + 18n$$

$$12) \ 9v^2 + 5 = 18v$$

$$13) \ 4n^2 + 31 = -8n$$

$$14) \ 6k^2 = -12k + 18$$

$$15) \ 9m^2 - 20m - 21 = 0$$

$$16) \ 10x^2 - 4x - 32 = 0$$

$$17) \ 3x^2 + 9x + 9 = 3$$

$$18) \ 4n^2 + 4n = -24$$